Title (en)
SYSTEMS AND METHODS FOR DATA EXCHANGE BETWEEN BINAURAL HEARING DEVICES

Title (de)
SYSTEME UND VERFAHREN ZUM DATENAUSTAUSCH ZWISCHEN BINAURALEN HÖRGERÄTEN

Title (fr)
SYSTÈMES ET PROCÉDÉS D'ÉCHANGE DE DONNÉES ENTRE DES DISPOSITIFS AUDITIFS BINAURICULAIRES

Publication
EP 3993446 A1 20220504 (EN)

Application
EP 21198303 A 20210922

Priority
US 202017085914 A 20201030

Abstract (en)
A system comprises a first hearing device (202-1) and second hearing device (202-2) associated with a first and second ear of a user, respectively. The first hearing device (202-1) is configured to detect a first audio signal representative of audio content, generate a first intermediate signal representation (ISR) corresponding to the first audio signal, the first ISR comprising a sparsely-encoded non-audio signal having a complexity measure that is below a threshold, and transmit the first ISR to the second hearing device. The second hearing device (202-2) is configured to detect a second audio signal representative of the audio content, generate a second ISR corresponding to the second audio signal, and transmit the second ISR to the first hearing device (202-1). The first hearing device (202-1) is further configured to generate, based on the first and second ISRs, an output audio signal, and provide the output audio signal to the first ear of the user.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/407 (2013.01 - US); **H04R 25/552** (2013.01 - EP); **H04R 25/554** (2013.01 - EP)

Citation (search report)
- [A] WO 2007128825 A1 20071115 - PHONAK AG [CH], et al
- [A] WO 2009153718 A1 20091223 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] EP 2341718 A2 20110706 - STARKEY LAB INC [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3993446 A1 20220504; US 11412332 B2 20220809; US 2022141599 A1 20220505

DOCDB simple family (application)
EP 21198303 A 20210922; US 202017085914 A 20201030